

What is claimed is:

1. A tourniquet system capable of being operated by a single user, comprising:
  - a strap;
  - a clamp for selectively engaging said strap;
  - wherein when said clamp engages said strap, said clamp permits said strap to pass substantially freely in a direction away from said clamp and substantially prevents said strap from passing in a direction towards said clamp; and
  - securing structure attached to said strap for securing said strap.
2. The tourniquet system according to claim 1, wherein said securing structure further secures said strap when said clamp engages said strap.
3. The tourniquet system according to claim 1, wherein said securing structure comprises:
  - a cover having at least one pin and at least one aperture;
  - a base having at least one aperture; and
  - a traveling arm having at least one pin;
  - wherein said cover pin is rotatably coupled to said base apertures;
  - wherein said traveling arm pin is rotatably coupled to said cover apertures.
4. The tourniquet system according to claim 3, wherein said securing structure further comprises a lock for securing said cover and said traveling arm to said base.

1           5.     The tourniquet system according to claim 3, wherein said cover further comprises:  
2                 a slot for receiving said traveling arm; and  
3                 an opening for receiving a projection for lifting said cover.

1           6.     The tourniquet system according to claim 3, wherein said base further comprises a  
2     first securing bar and said traveling arm further comprises a second securing bar;  
3                 wherein said strap is attached to said first securing bar.

1           7.     The tourniquet system according to claim 6, wherein said tourniquet system  
2     further comprises a supplemental strap attached to said clamp and said second securing bar of  
3     said traveling arm.

1           8.     The tourniquet system according to claim 1, wherein said strap is constructed of  
2     flexible webbing.

1           9.     A method of applying a tourniquet, comprising the steps of:  
2                 inserting a limb into a strap;  
3                 selectively engaging the strap such that the strap is permitted to pass substantially  
4     freely in a first direction and substantially prevented from passing in a second direction;  
5                 wherein the second direction is substantially opposite of the first direction; and  
6                 securing the strap, whereby said inserting, engaging and securing steps are capable  
7     of being performed by a single user.

1           10.    The method according to claim 9, further comprising the step of further securing  
2   the strap after said selectively engaging step is performed.

1           11.    The method according to claim 10, further comprising the steps of:  
2                    providing a securing structure for securing the strap;  
3                    wherein the securing structure has a cover having at least one pin and at least one  
4   aperture, a base having at least one aperture and a traveling arm having at least one pin;  
5                    rotatably coupling the cover pin to the base apertures; and  
6                    rotatably coupling the traveling arm pin to the cover apertures.

1           12.    The method according to claim 11, wherein the base has at least one snap  
2   projection and said securing the strap step comprises the steps of:  
3                    pulling the cover towards the base thereby causing the traveling arm to be forced  
4   towards the base; and  
5                    engaging the snap projections of the base to the cover apertures thereby securing  
6   the cover and the traveling arm to the base.

1           13.    The method according to claim 12, further comprising the step of providing a lock  
2   for locking the cover and the traveling arm to the base.

1           14.    The method according to claim 13, wherein said securing the strap step further  
2   comprises the step of locking the lock to lock the securing structure in place.

1           15.    The method according to claim 14, wherein the cover includes an opening for  
2   receiving a projection and the method further comprises the steps of:  
3               unlocking the lock;  
4               inserting the projection into the opening; and  
5               lifting the projection to move the cover and traveling arm away from the base  
6   thereby disengaging the securing structure.

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